

# *Contents of Atari TOS Developer's Kit*

February 28, 1992

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**DOCUMENTS:** The following documents are contained in the developer's kit. They are separated into groups of related documents for easier reference.

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Welcome letter  
Contents (this list)  
Introduction to the Atari Development Kit (November 6, 1991)

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GDOS letter  
GDOS Development Agreement

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Atari Developer Newsletter back issues

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Atari GEMDOS Reference Manual  
    Table of Contents (Apr 4, 1986)  
    Introduction (5/22/86)  
    calling, filenames, fileops, processes, vectors, errors (4/4/86)  
    GEMDOS FUNCTIONS BY NUMBER (undated)  
    funcs (4/10/86) except pages (9), (21) and (25) (1-23-89)  
    and page (13) (3-7-90)  
    prg (4/4/86)  
Pexec Cookbook (September 6, 1991)  
Hitchhikers Guide to the BIOS (Nov 26, 1985)  
    New pages: 5, 7, 12, 16, 38, 56, 75, (1-23-89)  
    New pages: 15, 31, 32, 33, 34, 35, 36, 37, 37a (3-5-90)  
AHDI 3.00 Release Notes (April 18, 1990)  
Atari CHKDISK3 Documentation (April 22, 1990)

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GEM Programming Guide  
    Volume 1-VDI (Third Edition: January 1989)  
    Volume 2-AES (Third Edition: January 1989)  
A Programmer's Guide to FSMGDOS (10/91)  
A User's Guide To FSMGDOS  
GEM Resource Construction Set (undated)

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C Language Programming Guide (undated, CP/M-68K guide for use with Alcyon C)  
Gem DOS Programmer's Tools (undated, copyright 1989)  
    Command Shell  
    AS68  
    MADMAC Reference Manual (ver. 1.00) and update (ver. 1.07)  
    ALN Docs (8/12/88) and update sheet (90/01/24)  
    AR68 (Archive Utility)  
    DUMP

Engineering Hardware Specifications (7 January 1986)  
Intelligent Keyboard Protocol (26 February 1985)

Chip specifications:

6850 ACIA, MC6850 (undated)  
68901 MFP (undated)  
AY-3-8910 PSG (undated)  
Programmable Sound Generator Manual (February 1979)  
GIACCESS (page 1, Mar 7, 1990, page 2, 1-23-90)  
WD1770/1772 Floppy Disk Controller (undated)  
Atari Monitor Summary Specifications (May 14, 1986)  
128K ROM cartridge schematics (1-2-85)  
Blitter Chip (17 June 1987)

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STE Hardware Developer Addendum

STE features list (undated)  
Genlock and the STE (undated)  
Video Modifications (25 May 1989)  
How to Implement Fine Scrolling on the STE (text undated, listings dated 2 May 1989)  
STE Digitized Sound Developer Information (undated)

TT030 Hardware Reference Manual (June 1990)

VME Bus Specifications for TT030 and Mega STE Products (undated)  
Rainbow TOS Release Notes (05 March 1991)  
STE TOS Release Notes (January 12, 1990)  
TT TOS Release Notes (September 6, 1991)  
STBook/STylus Expansion Bus Electrical Specifications (August 6, 1991)

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**DISKS:** The ST-TT Developer's Kit has five disks, with files that fall into several basic categories. The arrangement of the categories on the disks is as follows:

Disk 1: Alcyon C Compiler / ALN Linker  
Disk 2: MicroEMACS / Source Code Examples / RCS  
Disk 3: MADMAC / DB Debugger / Programming Utilities  
Disk 4: HDX / System Utilities / STE Programming Examples  
Disk 5: Demonstrator / eXensible Control Panel

The individual files and folders of each category are listed and described below:

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## ALCYON C COMPILER

The DEV folder contains the various files that make up the Alcyon C compiler package. The COMPILER files are contained within the DEV folder.

CP68.PRG	Three pass "C" compiler
C068.PRG	

C168.PRГ	
MAC.PRГ	68000/6502 macro assembler
AS68.PRГ	68000 assembler
AS68INIT	
AS68SYMB.DAT	
BATCH.TTP	ST batch processing program.
RM.PRГ	ST delete file program.
WAIT.PRГ	ST WAIT to return to desktop.
RAMDISK.PRГ	64K Ramdisk.
RAMDISK.S	Source to customize RAMDISK.
C.BAT	Batch input file.
CRAMD.BAT	Batch input file (uses ramdisk and MAC).

These files, when included within a "C" program, enable the use of the AES and VDI predefined messages, object types, GEMDOS definitions etc.

DEFINE.H	Miscellaneous definitions. Ex. NIL, TRUE...
GEMBIND.H	Do-it-yourself GEM binding kit.
GEMDEFS.H	Common GEM definitions.
VDIBIND.H	VDI external definitions.
TOSDEFS.H	TOS file attributes and error definitions.
OBDEFS.H	Common GEM OBJECT definitions.
OSBIND.H	"C" binding to GEMDOS and BIOS.
STDIO.H	"C" standard I/O file.
PORTAB.H	DRI recommended.
MACHINE.H	DRI recommended.
TADDR.H	Tree address offsets.
CTYPE.H	"C" typing functions.
ERRNO.H	DOS errors.
MATH.H	"C" header file.
OSIF.H	DOS functions.
OSIFERR.H	System errors.
SETJMP.H	"C" header file.
STRING.H	"C" header file.
LARGE.S	For compatibility with PC GEM.

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## ALN LINKER

The DEV folder also contains the ALN Linker and associated library files

ALN.PRГ	ST linker with overlay program and relocation program.
DOINDEX.PRГ	ST index file builder for ALN.
KERMIT.PRГ	File transfer program.
LINKAP.BAT	Batch to link GEM application.
LINKACC.BAT	Batch to link GEM desk accessory.
CLINK.BAT	Batch to link C runtime.
LINKIO.BAT	Batch to link DOS applications.
ACCSTART.O	GEM accessory start file.
ACCSTART.S	Source to desk accessory start.
APSTART.O	GEM application start file.
APSTART.S	Source to application start.

GEMSTART.O	"C", VDI, AES library start files.
GEMSTART.S	Source to "C", VDI, AES start.
ACSKEL.C	Example GEM desk accessory program.
APSKEL.C	Example GEM application program.
AESBIND	AES run time library.
AESBIND.NDX	*.NDX = library index file for ALN
VDIBIND	VDI run time library.
VDIBIND.NDX	
GEMLIB	"C" run time library.
GEMLIB.NDX	
LIBF	Floating point library.
LIBF.NDX	
OSBIND.O	GEMDOS trap routine.

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## MICROEMACS

The EMACS folder contains the text editor you may use for constructing your programs and several tutorial files for learning its use.

ME.TTP	TUTOR.DOC
TEXT1	TEXT2
TEXT3	

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## SOURCE CODE EXAMPLES

The EXAMPLES folder contains a number of additional folders with programming examples which illustrate use of the AES and VDI.

CARDS – folder containing: example dialog box and field usage.

CARDS.C	CARD.H
MAKECARD.BAT	CARDS.H
CARD.RSC	CTYPE.H
CTYPE.O	CARD.DFN
CARDS.O	CARDS.PRG

CORNER – example putting a dialog box in corners.

CORNER.C	CORNER.DFN
CORNER.H	CORNER.PRG
CORNER.RSC	

BUTTON – example using right and left mouse button.

BUTTON.C	BUTTON.PRG
NEWBUT.O	NEWBUT.S
LINKBUT.BAT	

DEADKEY – example allows input of foreign characters from keyboard.

DEADKEY.PRG	DEADKEY.S
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DOODLE – folder containing: source code for example draw program

DOODLE.C	DOODLE.INP
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TREEADDR.H	DOOSTART.O
LINKDO.BAT	DOODLE.PRG
DOODRSC.C	DOODLE.RSC
DOODLE.H	DOOSTART.S
DOS.H	DOODLE.DFN

FORMDO – folder containing: example of using a form.

FRMTST.C	FORM.DFN
FORM.H	FRMTST.PRG
FORM.RSC	

MENU – folder containing: example menu program

MLINK.BAT	MENTST.C
MENTST.H	MENTST.DEF
MENTST.RSC	MENTST.PRG

TEMPLATE-- folder with GEM program template.

TEMPLATE.C	Have a functional GEM application by surrounding your application with template.c
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## RESOURCE CONSTRUCTION SET

The RCS folder contains the Resource Construction Set and other tools for creating and manipulating icons and GEM resource files.

RCS8.PRG	Resource construction set program.
RCS8.RSC	File for RCS.
RCS8.DFN	This enables you to see RCS.RSC as an example.
README	Ignore this unless you are converting alpha to beta RCS.
DEF2DFN.PRG	See above comment.

ICON – folder containing: Shape editor and documentation.

SE.PRG	SE.RSC
SHIC.DOC	ATBALL.C
ATBALL.S	ATBALL.SHP
SDASM.PRG	SDASM.S
SDC.C	SDC.PRG
SDCST.S	

ICONA – folder containing Icon editor.

ICED.PRG	ICED.RSC
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RSCREATE – folder containing: information about resource create

DOC	STCREATE.C
STCREATE.INP	RSC.O
RSCRLIB.H	

## PROGRAMMING UTILITIES

The UTILITIES folder contains a number of useful programming utility programs.

COMMAND.TOS	Command line interpreter.
DUMP.PRГ	Hexadecimal file print utility.
FIND.PRГ	File string locator utility.
NM68.PRГ	Symbol table print utility.
SIZE68.PRГ	Program segment size utility.
AR68.PRГ	Library creation utility.
CHKDISK3.PRГ	Disk editor utility.
CHKDISK3.RSC	
PRGFLAGS.PRГ	Program flags utility
PRGFLAGS.DOC	& documentation

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## DB DEBUGGER

The DB folder contains the Atari Debugger along with associated files.

DB.PRГ	Atari Debugger
GEMDOS.DB	Procedure Scripts for GEMDOS debugging
RAMTRAP1.PRГ	Utility program for use with DB
RAMTRAP1.S	source code for RAMTRAP1.PRГ
RDB.PRГ	Remote version of DB
STUBRES.PRГ	Resident Stub for remote version
STUB.TTP	Non-resident stub for remote version

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## MADMAC

The MADMAC folder contains the Madmac Macro Assembler, along with associated example files and macro include files.

README	CONV65.MAN
CONV65.PRГ	M.PRГ
MAC.PRГ	ATARI.S
BUGS.S	CODE.S
CODE65.S	EXAMPLE.S
EXAMPLE1.S	EXAMPLE2.S
IMAGES.S	INSTMAC.S
SHIFT.S	

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## HDX

The HDX folder contains the current version of the Atari hard disk driver and Atari Hard Disk Utilities program.

AUTO – folder containing executable hard disk driver  
SHDRIVER.PRГ

## DEMONSTRATOR

The DEMONSTRATOR folder contains the Demonstrator program, which can be used to create demonstrations of your applications programs.

DEMOBLD.PRG	DEMOBLD.RSC
DEMOPLAY.PRG	DEMOPLAY.RSC
MANUAL.TXT	

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## EXTENSIBLE CONTROL PANEL

The XCONTROL folder contains the eXtensible CONTROL Panel, the basic CPX files (Control Panel Extensions), and programming examples for creating your own CPXs.

CPXDATA.H	CPXSTART.S
XCONTROL.ACC	XCONTROL.TXT

CPX – folder containing the basic CPX modules

COLOR.CPX	CONFIG.CPX
GENERAL.CPX	MACCEL.CPX
MODEM.CPX	PRINTER.CPX
SOUND.CPX	WCOLORS.CPX

MASTER.RCS – folder containing a master GEM resource template for a CPX.

MASTER.DFN	MASTER.H
MASTER.RSC	MASTER.RSH

SAMPLE.CP – folder containing complete source code for a sample CPX

CPXDATA.H	CPXSTART.S
MAKEFILE	SAMPLE.C
SAMPLE.CPX	SAMPLE.DFN
SAMPLE.H	SAMPLE.HDR
SAMPLE.ICN	SAMPLE.PRJ
SAMPLE.RSC	SAMPLE.RSH

XEVENT.CPX – folder containing sample source code for an event-driven CPX  
XVENT.C

XFORM.CPX – folder containing sample source code for a form-driven CPX  
XFORM.C

PREFIX – Folder containing utility for creating CPX headers

PREFIX.PRG	Utility for creating CPX headers
PREFIX.RSC	
PREFIX.TXT	documentation for PREFIX.PRG
ICONS	Folder containing sample icons for CPXs.
CONFIG.ICN	icon from CONFIG.CPX
GENERAL.ICN	icon from GENERAL.CPX
PRINTER.ICN	icon from PRINTER.CPX
RS232.ICN	icon from RS232.CPX
SOUND.ICN	icon from SOUND.CPX

HDX – folder containing Atari Hard Disk Utilities program

WINCAP	HDX.PRГ
SHIP.PRГ	HDX.RSC
COLDBOOT.PRГ	HINSTALL.RSC
HINSTALL.PRГ	SHDRIVER.RAW

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## SYSTEM UTILITIES

The SYSTEM folder contains a number of utility programs that either correct problems with various versions of TOS, or which enhance the system's performance.

CACHE100.TTP	Disk cache program
CACHREAD.ME	& documentation
MACCEL34.PRГ	Mouse Accelerator 3, version 4.0
MACCEL.TXT	& documentation
SHIPACC.PRГ	Hard disk ship utility
SHIPREAD.ME	& documentation
TOS14FIX.PRГ	Patch to correct problems with TOS 1.04 (Rainbow TOS)
TOS14FIX.TXT	& documentation
FOLDR100.PRГ	Program to add memory to system pool
SERPTCH.PRГ	Patch to correct serial port problems with TOS 3.01

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## STE PROGRAMMING EXAMPLES

The STE folder contains additional hardware programming demonstrations for the STE series computers.

ATARI.S	Madmac include file for various system equates & macros
BATMAN.NEO	Sample NEOCHROME pictures for example program
BATSIGNL.NEO	
BOOKCASE.NEO	
BUTERFLY.NEO	
CAESAR.NEO	
CARTOON.NEO	
CHEAT.NEO	
DRILLSCR.NEO	
DRILLSEA.NEO	
HSCROLL.PRГ	scrolling example
HSCROLL.PRN	
HSCROLL.S	
NEOWALL.PRГ	scrolling example
NEOWALL.PRN	
NEOWALL.S	
DMASND3.DOC	DMA Sound information
SCROLLIN.DOC	Scrolling information
CONTROL.GEM	GEM Metafile pictures showing documentation illustrations
DB15.GEM	
VIDMODS.GEM	



**The following additional documents available upon request:**

MetaDOS/CDROM Developers Documentation

Field Service Manuals with schematics  
(extra cost, contact Developer Administration for more information)

Atari SFP004 Floating Point Coprocessor Developer Kit  
(extra cost, includes SFP004, contact Developer Administration for more information)

Mega ST Series Internal Expansion Bus Documentation

ACSI/DMA Integration Guide (June 28, 1991)

SALAD (Still Another Line-A Document) (December 17, 1987)

